

LAKE: HILLS P (VLMP 07 )  
TOWN: PERKINS TWP  
COUNTY: FRANKLIN

MIDAS: 3686  
TRUE BASIN: 1  
SAMPLE STATION: 1

#### WHOLE LAKE INFORMATION

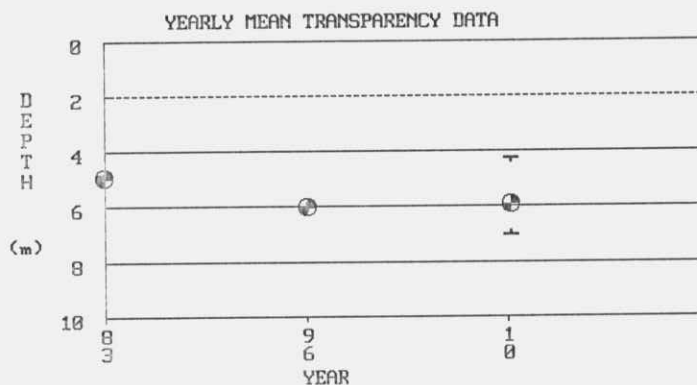
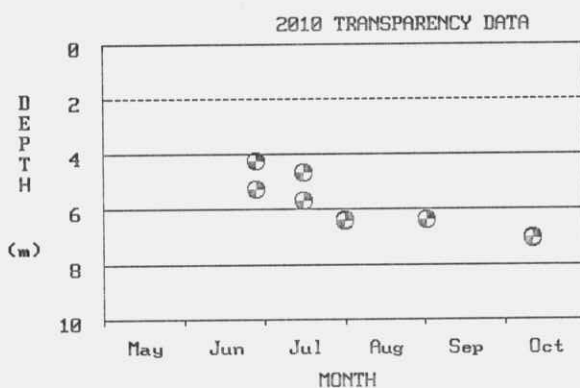
MAX. DEPTH: 9 m. (31 ft.)  
MEAN DEPTH: 5 m. (17 ft.)  
DELORE ATLAS #: 19  
USGS QUAD: MOUNT BLUE  
IFW REGION D: Rangeley Lakes (Strong)  
IFW FISH. MANAGMENT: Coldwater

#### TRUE BASIN CHARACTERISTICS

SURFACE AREA: 8.0 ha. (19.8 a.)  
FLUSHING RATE: 1.44 flushes/yr.  
VOLUME: 319709.3 cu. m. (259 ac.-ft.)  
DIRECT DRAINAGE AREA: 0.68 sq. km. (0.26 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. HILLS P has 1 True Basin(s).

#### SECCHI DISK TRANSPARENCY GRAPHS:



Note: 2010 graphs may indicate multiple readings taken on a given day.

#### SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[\* indicates that Secchi disk was visible at bottom of lake (or one reading used in calculation was visible)].

YEAR	MEAN COLOR	MEAN pH	MEAN ALK	MEAN COND.	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPHIC STATE INDICES			
	(SPU)		(mg/l)	(uS)	EPI	SURF	BOT.	PRO.	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
				/cm	CORE	GRAB	GRAB	GRAB											
1983	-	-	10.0	-	8	-	-	-	4.8	4.9	4.9	2	2.5	2.6	2.6	-	-	-	-
1984	20	6.80	0.3	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	13	-	4.0	29	4	-	1	-	6.0	6.0	6.0	1	2.1	2.1	2.1	-	-	-	-
2010	-	-	-	-	-	-	-	-	4.2	5.9	7.0	4	-	-	-	-	-	-	-
SUMMARY:	17	6.80	4.8	29	6	-	1	-	4.2	5.6	7.0	3	2.1	2.3	2.6	-	-	-	-

#### LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH	SAMPLE DATE			
	08/17/83		08/19/96	
m	°C	ppm	°C	ppm
0.0	23.0	8.8	23.3	8.2
1.0	22.5	8.8	23.0	8.1
2.0	21.0	8.8	22.2	8.2
3.0	21.0	9.0	21.8	8.1

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LATE SUMMER TEMPERATURE / DISSOLVED OXYGEN PROFILES:

DEPTH	SAMPLE DATE			
	08/17/83		08/19/96	
m	°C	ppm	°C	ppm
4.0	20.0	8.7	19.8	8.0
5.0	14.0	8.3	15.8	7.9
6.0	10.0	6.5	11.2	3.9
7.0	9.0	3.2	9.9	1.7
8.0	-	-	9.0	0.6
9.0	-	-	8.8	0.3